JC10 Rec'd PCT/PTO 3 1 DEC 2001

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED / ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER
P67528US0

US APPLIATION NO. () F kg/m, 1 e 37 CFR 1.5) 6 4

INTERNATIONAL APPLICATION NO.
PCT/RU00/00267

INTERNATIONAL FILING DATE

30 June 2000

PRIORITY DATE CLAIMED

30 June 1999

TITLE OF INVENTION

MEDICAL FABRIC WITH VIRUCIDAL AND ANTIMICROBIAL ACTION AND ARTICLES THEREFROM

APPLICANT(S) FOR DO/EO/US

1) Zinaida Yulianovna KOZINDA,

2) Yelena Grigoryevna SUVOROVA, 3) Mikhail Vasilyevich STRUKOV

4) Aleksandr Vladimirovich SEDOV 5) Sergei Fedorovich GONCHAROV

Applicant herein submits to the United States Designated/Elected Office (DO/EO/US) the following
items and other information.
1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. A proper Demand for Internati. Preliminary Examination was made by the 19th month from earliest claimed priority date.
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))
a. \square is transmitted herewith (required only if not transmitted by the International Bureau).
b. has been transmitted by the International Bureau.
 a. is transmitted herewith (required only if not transmitted by the International Bureau). b. has been transmitted by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (RO/US) A translation of the International Application into English (35 U.S.C. 371(c)(2)). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
A translation of the International Application into English (35 U.S.C. 371(c)(2)).
Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
b. have been transmitted by the International Bureau.
a. are transmitted herewith (required only if not transmitted by the International Bureau). b. have been transmitted by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired.
d. have not been made and will not be made.
A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
A translation of the annexes to the Internatl. Preliminary Examination report under PCT Article 36 (35 U.S.C. 371(c)(5)).
tiems 11. to 16. below concern other document(s) or information included:
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. An assignment document for recording. A separate cover sheet compliance with 37 CFR 3.28 and 3.31 is included.
13. A FIRST preliminary amendment.
A SECOND or SUBSEQUENT preliminary amendment.
14. A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. Other items or information:
International Search Report – Russian Patent Office First Page of Publication

US APPLICATION NO. (If 1 wwn cee 37 CFB 15)	19464	INTERNATIONAL APPLICATION NO PCT/RU00		ATTORNEY'S DOCKET NUMBER	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CALCULATIONS	PTO USE ONLY
17. The following fees	are submitted:				
Basic National Fee (37 CF					
Internatl. prelim. examina					
No international prelimina (a) (2)) but international s					
Neither international preli					
International preliminary ((a) (4)) and all claims sat					
Search Report prepared	by the EPO or JPO (37	7 CFR 1.492 (a) (5)) .	\$890.00		
	ENTER APPRO	OPRIATE BASIC FE	E AMOUNT =	\$ 1040.00	
Surcharge of \$130.00 for 20 20 30 months from	furnishing the oath or om the earliest claimed			\$ 130.00	
Claims	Number Filed	Number Extra	Rate		
Total Claims	5 - 20 =	-0-	x \$18.00	\$	
Independent Claims	2 - 3 =	-0-	x \$84.00	\$	
Multiple Dependent Clain	n(s) (if applicable)		+ \$280.00	\$	
Section 2	TOTA	L OF ABOVE CALC	CULATIONS =	\$ 1170.00	
Reduction by 1/2 for filing Entity statement must als			all	\$	
55.5 55.5 55.5			SUBTOTAL =	\$ 1170.00	
Processing fee of \$130 for 20 30 months from		\$			
	IONAL FEE =	\$ 1170.00			
Fee of \$40.00 for recordi Assignment must be acc				\$	
		TOTAL FEES	ENCLOSED =	\$ 1170.00	
				Amt. to be refunded:	\$
				Amt. charged:	\$
b. Please charge my E A duplicate copy of c. The Commissioner	unt of \$ 1170.00 Deposit Account No. 0 this sheet is enclosed. is hereby authorized to oplication, or credit any ed.	6-1358 in the amount c charge my account a	of \$ to cove	set forth in §1.492	during the te copy of
SEND ALL O	CORRESPONDE	NCE TO:		14	_
400 7th S Wash 202	SON HOLMAN P Street, N.W., Suith hington, DC 2000 2-638-6666 ER NUMBER: 00	e 600 4	By Johr Reg	Moly C. Holman No. 22,769	JPH&S

JC13 Rec'd PCT/PTO 3 1 DEC 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Zinaida Yulianovna KOZINDA et al

Serial No.:

New

Filing Date:

December 31, 2001

For:

MEDICAL FABRIC WITH VIRUCIDAL AND ANTIMICROBIAL ACTION

AND ARTICLES THEREFROM

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents Washington, D.C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

IN THE SPECIFICATION

Please insert the following sentence on line 1, immediately following the title:

--This is a nationalization of PCT/RU00/00267, filed June 30, 2000 and published in Russian.--

REMARKS

The foregoing Preliminary Amendment is requested in order to place the examination in better form for examination.

Early action on the merits is respectfully requested.

Respectfully submitted,

JACOBSON HOLMAN PLLC

Bv

John C. Hollmar

Reg. No. 22,76

400 Seventh Street, N.W. Washington, D.C. 20004-2201

(202) 638-6666

Atty. Docket: P67528US0 Date: December 31, 2001

JCH:jrc

MEDICAL FABRIC WITH VIRUCIDAL AND

ANTIMICROBIAL ACTION AND ARTICLES THEREFROM

The present invention relates to the field of medicine, namely, to prevention and prophylaxis of infection/inflammatory diseases caused by impact of adverse microbiological factors, by means of providing a medical material and products made therefrom having virucidal and antimicrobial activity.

Clothes, personal hygiene articles such as bed-linen, towel, diapers, napkins, gloves, hosiery, etc., having antimicrobial activity are requisite not only in medical institutions, such as hospitals, burn centres, maternity hospitals, in emergency situations, in cases of epidemics, but also in household. In household, these articles are used as prophylactic means reducing the possibility of falling ill and relapse occurrences. For workers of medical institutions these article are requisite for diminishing the danger of spreading in-hospital infection, being in a prolonged position at the working place without the possibility to change the clothes, as articles from antimicrobial material are conducive to disruption of epidemical path of disease transfer through human clothes, as well as to prevent repeated autoinfection.

An antimicrobial material comprising a base of natural fibres and sanguiritrine which is used both in medicine and in sanitary. The method for producing this material, comprising impregnating the natural fibres with sanguiritrine and subsequent drying it. (USSR author's certificate 1771750, Cl. A 61 L 15/00, 30.10.1992).

However, these modifications do not possess antimicrobial activity to a vast group of microorganisms and fungi and fail to retain their properties after washing.

The known materials have antimicrobial activity with respect to gram-positive, gramnegative microorganisms and fungi, including viruses/infection agents not having cellular structure and being distinguished by extremely small sizes and capable to pass through bacteria retaining filters and pertaining to dressing.` The technical solution closest to the claimed one is the textile material having antimicrobial activity and made from bactericidal fibres of 3,4,4-trichluorocarbanilide, tinorganic compounds and hexachlorophene. This material is intended for clothes and underwear sewing. However, these materials are toxic which does not make it possible to employ them as a prophylactic antimicrobial material, and they have a narrow activity range. (USSR author's certificate 317660, Cl. A 61 L 15/00, 19.10.1971).

The object of the present invention is providing a material and personal hygiene articles made from it that would have biological activity with respect of a number of grampositive, gram-negative groups, pathogenic fungi and with respect to group F/RK/8/34 microvirues, eteroviruses (type III polyomyelitis and A hepatitis) without any toxic effect on the human organism and laundry-resistant.

This objet is achieved by manufacturing the article (clothes, personal hygiene articles such as bed-linen, towel, diapers, napkins, gloves, hosiery, etc.) from a fabric containing a sorbed or fabric chemically associated biologically active agent, a quadruple ammonium base with 10-18 carbon atoms, Catamin AB and polyatomic alcohol with the component wt. % ratio of:

Catamin AB

- 0.06-0.075

Polyatomic alcohol

- 0.03-0.038

Catamin AB, alkyldimethylbenzyl ammonium chloride (synonym, Rockal) is an antiseptic and relates to cationic surfactants. $[R(CH_3)_2(CH_2C_6H_5)N]^{+}CI^{-}$ R-mixture of $C_{10}H_{21}$ - $C_{18}H_{37}$ or $C_{12}H_{25}$ - $C_{14}H_{29}$ straight-chain alkyl groups. Medium molar weight of Catamin AB is 361 ± 15 g/mole. Technical specification TU 2482-012-1316 4401-94.

Cotton, wool, polyamide, mixed fibre materials and other materials used in medicine may serve as the material.

Embodiment 1 of the Invention

Cotton fabric is periodically treated with a 0.9% antiseptic Catamin AB aqueous solution of the solids weight in the presence of 0.038% of polyatomic alcohol. Sorption is carried out during a time period of more than 30 minutes. After which the material produced is dried. Whereby concentration of the sorbed active substance is about 0.06% of the material weight.

Embodiment 1 of the Invention

Woollen fabric is treated according to operation of the method described in Embodiment 1, whereby antiseptic is used in concentration of 1.5% of solids weight, the polyatomic alcohol is in the amount of 0.038%. Concentration of the active sorbed substance on the material is 0.075% of the material weight.

Embodiment 3 of the Invention

Polyamide fabric is treated with Catamin AB 1.2% and polyatomic alcohol 0.035% aqueous solution periodically for 60 minutes, followed by drying the material produced. Concentration of Catamin AB was 0.07% of the material weight.

Examples of producing and properties of the material are provided in the table.

The material produced is used to manufacture articles such as clothes, personal hygiene items, bed-linen, towel, diapers, napkins gloves, hosiery, etc.

This material has no toxic effect on humans, does not affect human immune system, promotes more rapid curing of the patient and prevents disease relapses, which is supported by its use in burn centres and by prophylactic use under household conditions.

Ten patients having II and III degree burns were being cured on cots provided with sheets made from this material. Observations have shown that epidermis recovery occurs after 10-12 days. Healing is without secondary stretching.

When using medicinal gloves and socks made from this material, after nail removal in treating nail mycosis, a significant relapse reduction (down to 75%) was observed as well as accelerated recovery of nail bed epidermis.

The use of antimicrobial clothes in clinics by medical personnel 2-4 times reduces seeding of smocks, suits and other clothes. Thus, it enhances protection of medical personnel against microbial factor and prophylaxis of in-hospital infections.

Thus, articles manufactured from this material are capable of speeding-up the process of curing patients having diseases caused by a number of gram-positive and gram-negative groups of microorganisms, pathogenic fungi, as well of acting prophylactically when there exists the possibility of their proliferation.

Table

							lable			
	catamin	Area of inh	Yeast fungi							
	content	golden staphyloco	ccus	Colon baci	Colon bacillus		İ			
	% of material	before	after 15	before	after 15	before	after 15			
	weight	washing	washings	washing	washings	washing	washings			
cotton										
1	0,06	4	4	2,5	1,5	2,5	2			
2	0,065	5,5	5	2,5	2	3	3			
3	0,07	6,5	6	3,5	3	3,5	3			
4	0,075	7	7	4,5	4	4	3,5			
			WO	ol	<u></u>		•			
1	0,06	4	3,5	2,5	2	2,5	2,5			
2	0,065	5	4,5	3	2,5	3	2,5			
3	0,07	6,5	6	3,5	3	4	3,5			
4	0,075	7,5	7	4	3,5	4	4			
			polyar	nide	<u> </u>					
1	0,06	4	3,5	2,5	1,5	2,5	2			
2	0,065	4	3	3	2,5	3	2,5			
3	0,07	4,5	4	3,5	3	3,5	3			
4	0,075	5	5	4,5	4	4	4			
		cotto	on 50% - po	olyamide 50	0%	•	· · · · · · · · · · · · · · · · · · ·			
1	0,06	4,0	3,50	2,5	2,0	2,5	2,0			
2	0,065	4,5	4,00	2,7	2,5	3,0	2,5			
3	0,07	5,0	4,50	3,0	3,0	3,5	3,0			
4	0,075	6,0	5,00	4,0	3,5	4,0	3,5			
		cott	ton 50% - p	olyester 50	%					
1	0,06	3,0	3,0	2,5	1,5	2,0	1,5			
2	0,065	3,6	3,5	2,5	2,0	2,0	2,0			
3	0,07	4,0	3,5	3,0	2,0	2,5	2,0			
4	0,075	4,2	4,0	3,0	2,5	3,5	2,5			
wool 50% - polyamide 50%										
1	0,06	4,0	3,5	2,5	2,0	2,0	2,0			
2	0,065	4,5	3,5	3,0	2,0	2,0	2,0			
3	0,07	5,0	4,0	3,5	2,5	3,5	3,0			
4	0,075	5,5	4,5	4,0	3,0	4,0	3,0			

CLAIMS

1. A medical material on the base of natural fabrics with an antimicrobial substance, characterised in that it comprises, as the antimicrobial substance, a quadruple ammonium base having 10-18 carbon atoms, Catamin AB, and polyatomic alcohol with the following component ratio, wt. % of the material weight:

Quadruple ammonium base having 10-18 carbon atoms,

Catamin AB

- 0.06-0.75

Polyatomic alcohol

- 0.03-0.038

2. An article made from a medical material on the base of natural fabrics with an antimicrobial substance, characterised in that it comprises, as the antimicrobial substance, a quadruple ammonium base having 10-18 carbon atoms and polyatomic alcohol with the following component ratio, wt. % of the material weight:

Quadruple ammonium base having 10-18 carbon atoms,

Catamin AB

- 0.06-0.75

Polyatomic alcohol

- 0.03-0.038

- 3. An article according to claim 2, characterised in that it is formed as surgical articles such as surgical sheets, surgical clothes, mask, covers.
- 4. An article according to claim 2, characterised in that it is formed as private hygiene articles such as bed-linen, towel, diapers, gloves, hosiery.
- 5. An article according to claim 2, characterised in that it is formed as underwear.

ABSTRACT

The invention relates to the field of medicine, namely, to prevention and prophylaxis of infection/inflammatory diseases caused by impact of adverse microbiological factors, by means of providing a medical material and products made therefrom having virucidal and antimicrobial activity.

The medical material on the basis of natural fabrics with an antimicrobial substance as the antimicrobial substance comprises a quadruple ammonium base having 10-18 carbon atoms, Catamin AB, and a polyatomic alcohol, with the following component ratio, wt. % of the material weight:

Quadruple ammonium base having 10-18 carbon atoms,

Catamin AB

- 0.06-0.75

Polyatomic alcohol

- 0.03-0.038

· DECLARATION AND POWER OF ATTORNEY U.S.A.

ALL PATENTS, INCLUDING DESIGN FOR APPLICATION BASED ON PCT; PARIS NON PRIORITY; OR PROVISIONAL APPLIC

DATE

FOR ATTORNEYS' USE ONLY	
ATTORNEYS' DOCKET NO.	
L	

NON	APPLICATION BAS PRIORITY; OR PR	SED on PCT; paris conv ICVISIONAL APPLICATION:	ention: S						
101	first and sole inve	d inventor, I declare that my ntor (if only one name is lister aimed and for which patent is	d at 201 below), or a	n onginal, lirst a	citizenship are stated below and joint inventor (if plurat inv	next to my name, the enters are named both .	he information giv elow at 201-203, (en herem is true, that l or on additional sheets a	believe that I am the ongmal, attached hereto) of the subject
	"Medical	fabric with	virucida	L and ar	ntimicrobial	action an	d articl	es therefo	rm"
102	which is describe		X PCT Internation			/0026 <i>7</i> ,		illed 30 Ju	ne 2000
	the attached :	specification	the specifical	don in applicatio	on Serial No.			filed	
			(if applicab	ie) and amende	ed on				
	I acknowledge the I hereby claim for foreign application	e duty to disclose information eign priority benefits under T n for patent or inventor's cert	n which is material to Title 35, United State	o patentability a es Code, §119 (ntified specification, includir is defined in Tille 37, Code of (a)-(d) of any foreign applica hat of the application on white	of Federal Regulation tion(s) for patent or	ons, §1.56. inventor's certific		ve also identified below any
	Prior Foreign App	* *	1	RUS	SSIA	30 June	1999	· ·	
	9911336 (Number)	9	(Country)			(Day/Month/Year F		_ X Yes	No.
	(1101120)		(333),			(20),			
П	(Number)		(Country)			(Day/Month/Year F	iled)	Yes	No
15									
Ц	(Number)		(Country)			(Day/Month/Year F	iled)	Yes	No
104	I hereby claim the	e benefit under Tille 35, Unite	ed States Code.§11	9(e) of any Unit	ed States provisional applic	ation(s) listed below	v:		
=	Application No.		Filing C		Ар			Filing Date	
105	disclosed in the o	rior United States application	n in the manner pro	vided by the firs	I States application(s) listed at paragraph of Title 35, Unit came available between the	ed States Code, §1	12, Lacknowledge	the duty to disclose in:	is of this application is not formation which is material to itemational filling date of this
		olication Senal No.)			(Filing Date)		(Status:	patented, pending, abai	naanea)
R.S	TERN (20,640); 409) ¥OON S. H	ALLEN S. MELSER (27,2 HAM (45,307) and NATH RRESPONDENCE TO: JA PROFESSIO	215); MICHAEL R IANIEL A. HUMP	SLOBASKY HRIES (22,7' IO. 00136 IOLMAN IABILITY CO REET, N.W.	(26,421); JONATHAN L 72)	SCHERER (29,	,851); IRWIN M TELEPHONE (lease use Attor	. AISENBERG (19.00	MAN
יחוד		ust include at least one	unabbreviated fir	st ar middle r	name.				
M	FULL NAME	FAMILY NAME KOZ	inda	1	GIVEN NAME Zina	ida _	N	IDOLE NAME	
N	OF INVENTOR RESIDENCE &	kmy	$ \Omega_{0}$.		STATE OR FOREIGN			Yulianovna	
	CITIZENSHIP	Mose	::•\\\\	Ψ.		RUSSIA	Α [RUSS	
1		POST OFFICE ADDRE			CITY		STATE	OR COUNTRY	ZIP CODE
	ADORESS	Volokolamsko kv. 249	ye Snosse	e, a.b,	Moscow			RUSSIA	125080
	FULL NAME	FAMILY NAME	rova	1	GIVEN NAME Yele	na	1	NAME	
\mathbb{N}	OF INVENTOR RESIDENCE &	CITY			STATE OR FOREIGN			Grigoryevna COUNTRY OF CITIZ	
狥	CITIZENSHIP	Moso	W X wa	vt		RUSSIA	A _	RUSSI	Α
	POST OFFICE ADDRESS	POST OFFICE ADDRE 13 Parkovaya	ss a, d. 37,	k. 1,	CITY		STATE	OR COUNTRY	ZIP CODE
H	FULL NAME *	kv. 13	, <u>,</u>		Moscow GIVEN NAME		i	RUSSIA NDOLE NAME	105215
	OF INVENTOR	FAMILY NAME Stru	ıkov_	1	Mikh	ail	ľ	Vasilyevic	:h
1/1	RESIDENCE &	CITY Mosc	n V wo:	12	STATE OR FOREIGN		1	OUNTRY OF CITIZ	
潔	CITIZENSHIP			ML	CITY	RUSSIA		RUSS OR COUNTRY	SIA ZIP COOE
	POST OFFICE ADDRESS	POST OFFICE ADDRE ul. 50-let V kv. 7	LKSM, d.	4, \	g.Korolev,	Moskov.ol		RUSSTA	141070
state	ements were mad	all statements made here	iat willful false sta	itements and	ue and that all statement	s made on inform	nation and belie or imprisonmer	f are believed to be to at or both, under sec	rue; and further that these tion 1001 of Title 18 of the
		<u> </u>				audit or any pate		OF MUENTOR 20:	3-
1216	NATURE OF IN	YENTOR 201"	, 150	SINA I UKE O	FINYENTOR 202"	/	PIGIAVIOUS	- 27 /19 C 17 C 1 2 C .	3°

11.02.02

11.02.02 Additional inventors are named on separately numbered sheets attached hereto.

DECLARATION AND POWER OF ATTORNEY

ALL PATENTS, INCLUDING DESIGN FOR APPLICATION BASED ON PCT; FARIS CONVENTION; NON PRIORITY; OR PROVISIONAL APPLICATIONS

FOR ATTORNEYS' USE ONLY ATTORNEYS' DOCKET NO. U.S.A.

T illust and sole inve	ed inventor, I declare that my entor (if only one name is liste laimed and for which patent	ed at 201 below), o	r an onginai, iirst a	citizenship are stated below Ind joint inventor (if plural inve	next to my name, the ntors are named be	s information g low at 201-203	iven herein is true, that , or on additional sheets	I believe that I am the original, attached hereto) of the subject
1 5	•	-		antimicrocia	l action	and ar	ticles ther	reform"
	ed and claimed in:	X PCT Interna	ational Application	No. PCT/RUC	00/00267		filed 30 Ju	ine 2000
the attached	specification	the specific	zation in applicatio	on Senal No.			filed	
		(If applic	able) and amende	ed an				
l acknowledge th I hereby claim for foreign application	e duty to disclose information reign priority benefits under an for patent or inventor's ce	n which is materia Title 35, United St	l to patentability a ates Code, §119 (ntified specification, including s defined in Title 37, Code or a)-(d) of any foreign application at of the application on which	Federal Regulation on(s) for patent or in	ıs, §1.56. nventor's certifi	icate listed below and h	ave also identified below any
Prior Foreign App	, ,		70	TIGGT A	00 7	1000	Prionty Cla	aimed
9911336 (Number)	59	(Country			30 June 1 Day/Month/Year File		X	No.
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(555,114)	•	,	bej/menda rear rin			
(Number)		(Country)		Day/Month/Year File	ed}	_ L_l Yes	No
					·		_ 🗆	
(Number)		(Country)	(Day/Month/Year File	ed)	Yes	Мо
I hereby claim the	e benefit under Title 35, Uni	ted States Code,§	119(e) of any Unit	ed States provisional applica	tion(s) listed below:			
Application No.		Filing	Oate	Арр	ication No.		Filing Date	
I hereby claim the	e benefit under Title 35, Uni	ted States Code, §		States application(s) listed to				ms of this application is not
disclosed in the patentability as d	orior United States application in Title 37, Code of F	on in the manner p Federal Regulation:	rovided by the firs s, §1.56 which bed	t paragraph of Title 35, Unite came available between the	d States Code, §11: iling date of the pno	2, I acknowied or application a	ge the duty to disclose in the national or PCT	nformation which is material to international filing date of this
(Ap	plication Senal No.)			(Filing Date)		(Slatus	patented, pending, ab	andoned)
WER OF ATTOR	NEY: As a named inve	ntor, I hereby ap	point the follow	ing attorneys (Registration	n No.) to prosec	ute this appli	cation, receive and a	ect on instructions from my
ent, and transact a	all business in the Pater	it and Trademar	k Office connec	cted therewith. HARVEY	B. JACOBSON,	JR. (20,851)	JOHN CLARKE HO	OLMAN (22,769); MARVIÑ 207); WILLIAM E. PLAYER
	ALLEN 5. MELSER (27, HAM (45,307) and NATI				30nerer (29,0	O 1); IRVVIIA II	1. AIGENBERG (19,0	007); WILLIAM E. PLATER
SEND CO	RRESPONDENCE TO:	CUSTOMER	NO. 00136		DIRECTI	ELEPHONE	CALLS TO:	
		ar					mey's Docket No.)	(202) 638-6666
12000 12000		COBSON				140	OBSON HOL	MANI
PROFESSIONAL LIMITED LIABILITY COMP 400 SEVENTH STREET, N.W.				MPANY	P		IAL LIMITED LIABI	
		VASHINGTON,	•					
ventor(s) name m	oust include at least one	unahhreviated	first or middle n	ame				
	FAMILY NAME	Chacerer sace		GIVEN NAME			MIDDLE NAME	
OF INVENTOR		dov-		Aleke	ndr]		dimirovich
RESIDENCE &	CITY Mc	SCOWN		STATE OR FOREIGN O	COUNTRY	STA	COUNTRY OF CITIZ	
CITIZENSHIP	POST OFFICE ADDRE		~ 	CITY			RUSSIA OR COUNTRY	ZIP CODE
ADDRESS	lul.Planernay	7a, d. 18	s, k. 1,	1				l .
CIUL MANGE	kv. 228			Moscov			RUSSIA	123481
FULL NAME * OF INVENTOR	FAMILY NAME GOT	ncharov	. 1	GIVEN NAME Serge	i	l	MIDDLE NAME Fedo	rovich
RESIDENCE &	CITY	scow /	1.1	STATE OR FOREIGN O		· ·	COUNTRY OF CITE	
CITIZENSHIP	!	¥	WY		RUSS	STA.	RUSSIA	
POST OFFICE ADDRESS	POST OFFICE ADDRE			CITY		STATE	OR COUNTRY	ZIP CODE
/.55.\255	2 Polevoi pe kv. 229	sr., a. /	,	Moscov	ī		RUSSIA	107014
	FAMILY NAME	······································		GIVEN NAME	*		MIDOLE NAME	
OF INVENTOR RESIDENCE &	him -			STATE OF SOCION	CHAITOV		COUNTRY OF OFF	7ENGLID
CITIZENSHIP	Cit			STATE OR FOREIGN (MINIOU	ļ	COUNTRY OF CITI	LENOTIF
POST OFFICE ADDRESS	POST OFFICE ADDRE	SS		CITY		STATE	OR COUNTRY	ZIP CODE
tements were ma	de with the knowledge to and that such willful fal-	hat willful false s se statements n	tatements and nay jeopardize	the like so made are pun the validity of the applica INVENTOR 205*	ishable by fine or tion or any paten	imprisonme t issuing the	nt or both, under sec	true; and further that these ction 1001 of Title 18 of the
ATE	17 02 02	1	DATE	12 02 02	eco	DATE		
	12,02.07	<u> </u>	··· l	2.02.02				